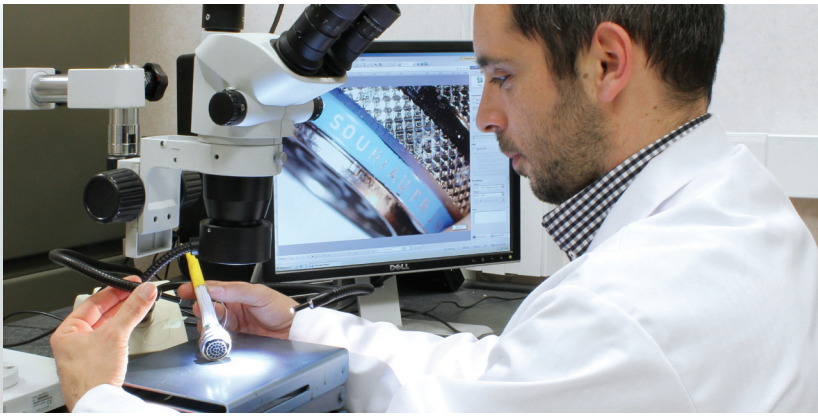
CENTRAL TEST LABORATORY

SOURIAU
SUNBANK



Mechanical, Environmental and Electrical Tests

Calibration & Product Qualification

Esterline
Connection Technologies

Typical Tests

Vibration

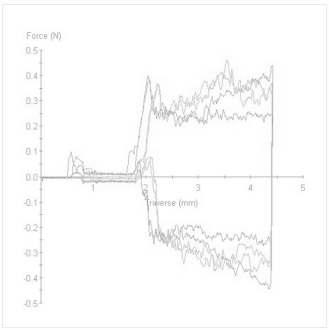
Environment Simulation

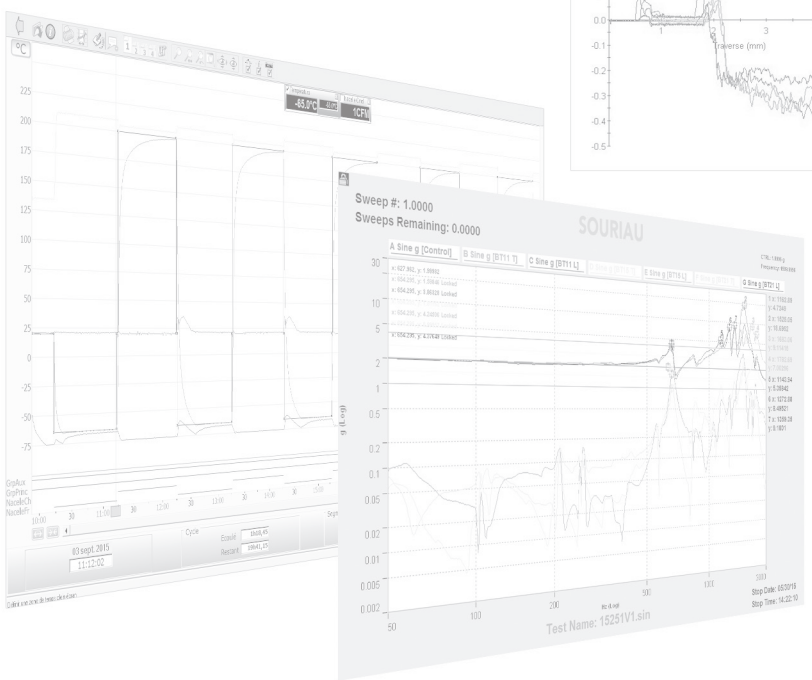
Water Pressure

Hard Vaccum

Salt Spray Test

Air Pressure





Features & Benefits

EXPERTISE

Expert in Environmental Testing

Over 50 years of expertise in measure and harsh environment testing on interconnect solutions.

EQUIP-MENT

High Performance Equipment

750m² of equipment able to simulate environment from deep sea to deep space, on wide range of connector, from high speed shielded to high power.

INDE-PENDENT

Impartial and Confidential

Attested as an « Independent Laboratory » by the LCIE in compliance with the ISO17025 referential, the CTL* is allowed to conduct official qualifications for usage in the aeronautics, spatial, military, industrial and railway markets.

CERTIFIED

ISO, BSI, BAAINBw, DLA, and NAVAIR Certified

ISO 17025 but also certified to several other referencials, which demonstrate the reliabilty of the Central Test Laboratory.

SERVICES

Our Difference

A team of experienced test engineers and technicians with continuous improvement of skills and testing resources.

*CTL: Central Test Laboratory (L.C.E.: Laboratoire Central d'Essais)

Activity

Esterline Connection Technologies - SOURIAU Central Test Laboratory is specialised in environmental testing of connectors, backshells and mid-sized electro-mechanical equipments.

The CTL is certified as an Independent Testing Laboratory by the LCIE Certifying Authority to carry out mechanical, environmental and electrical tests on electrical connectors and passive electronic components (PEMCO). Product qualifications are applied for any use on aeronautic, space, military, industrial and railway markets.

The CTL facilities provide a means to simulate of all major environmental conditions (mechanical, climatic or electric) for component and equipment evaluation.

Organisation

A qualified team of 20 people is organised into three main groups of activities:

- Electrical & Climatic tests
- Mechanical tests
- Calibration

The CTL has a surface area of 750m² divided into separate specialized rooms and zones for each environmental activity.

The CTL is an independent unit with its own P&L under the direct control of Esterline Connection Technologies - SOURIAU R&T Director in order to guarantee the independence and impartiality of testing and the analysis of results.

Independent Testing Laboratory

Attested as an Independent Testing Laboratory, the CTL is compliant with the IEC Quality Assessment System and ISO/IEC 17025 : 2005 as well as the ISO 9001 : 2008 requirements. A unique range of tools are used to reproduce the harshest environmental conditions.

IEC QUALITY ASSESSMENT SYSTEM (IECQ)
covering Electronic Components,
Assemblies, Related Materials and Processes
For rules and details of the IECQ visit www.iecq.org

Certificate of Approval
Independent Testing Laboratory

IECQ Certificate No.:	IECQ-L LCIE 09.0001	Issue No.:	3	Status:	Current
Supersedes:	IECQ-L LCIE 09.0001 Issue 2	Issue Date:	2014/12/17	Org Issue:	1994/01/25
CB Certificate No.:	01-L-94 Is. 12	Expiration:	2017/12/16		

ESTERLINE CONNECTION TECHNOLOGIES (SOURIAU - SUNBANK)
LABORATOIRE CENTRAL D'ESSAIS (L.C.E.)
3 rue du Vallon
94440 MAROLLES-EN-BRIE
France

The organization, facilities and procedures have been assessed and found to comply with the applicable requirements for Independent Testing Laboratory organization approval, in support of the IECQ system, which is in accordance with the Basic Rules IECQ 01 and Rules of Procedure IECQ 03-6 "Independent Testing Laboratory Assessment Program Requirements" of the IEC Quality Assessment System for Electronic Components (IECQ) and applicable requirements of ISO/IEC 17025: 2005 for the testing of electronic components under the IECQ.

Scope:
Mechanical, environmental and electrical tests on electrical connectors and passive electronic components.
See detailed scope in annex

-- Attached Schedule: 01-L-094 Is.12_EN_IECQ-C_Schedule_of_Scope_Annex.pdf --

Approved by Certification Body (CB): LCIE Bureau Veritas
33 avenue du Général Leclerc
BP 8
F 92266 FONTENAY-AUX-ROSES cedex
France

Authorized person:
Rémi Hanot

Sponsoring Member Body
FRANCE

The validity of this approval is maintained through on-going surveillance inspections.
Note: This approval may be suspended or withdrawn in accordance with the Rules of Procedure of the IECQ.
This approval and any schedule(s) may only be reproduced in full.
This approval is not transferable and remains the property of the issuing body.
The Status and authenticity of this approval may be verified by visiting the www.iecq.org

-- Attached Translation: IECQ-L LCIE 09.0001 4d2_ - 01-L-094 4d12.pdf --

IECQ-L Rev. 08

afaq AFNOR CERTIFICATION

Certificat
Certificate

N° 2007/29480.5

AFNOR Certification certifie que le système de management mis en place par :
AFNOR Certification certifies that the management system implemented by:

SOURIAU Groupe ESTERLINE

pour les activités suivantes :
for the following activities:

PRESTATIONS D'ENGINEERING D'ETUDES, CONCEPTION, FABRICATION, SOUS-TRAITANCE INDUSTRIELLE DE COMPOSANTS, CONNECTEURS, FAISCEAUX ET HARNAIS ELECTRIQUES ET OPTIQUES, DE SOUS-ENSEMBLES ET SYSTEMES COMPLEXES ELECTROMECANIQUES ET ELECTRO-OPTIQUES.

ENGINEERING STUDIES, DESIGN, MANUFACTURING, INDUSTRIAL SUBCONTRACTING OF COMPONENTS, CONNECTORS, CABLE LOOMS AND ELECTRICAL AND OPTICAL HARNESSES, SUBASSEMBLIES AND COMPLEX ELECTRO-MECHANICAL AND ELECTRO-OPTICAL SYSTEMS.

a été évalué et jugé conforme aux exigences requises par :
has been assessed and found to meet the requirements of:

ISO 9001 : 2008

et est déployé sur les sites suivants :
and is developed on the following locations:

3, Rue Du Vallon FR-94440 MAROLLES-EN-BRIE

Ce certificat est valable à compter du (année/mois/jour) *This certificate is valid from (year/month/day)* 2016-06-22 Jusqu'au *Until* 2018-09-14

Directeur Général d'AFNOR Certification
Managing Director of AFNOR Certification

F. LEBEUGLE

Flashez ce QR Code pour vérifier la validité du certificat

11, rue Francis de Pressensé - 93571 La Plaine Saint-Denis Cedex - France - T. +33 (0)1 41 62 80 00 - F. +33 (0)1 49 17 99 00
SAS au capital de 18 187 000 € - 479 076 002 RCS Bobigny - www.afnor.org

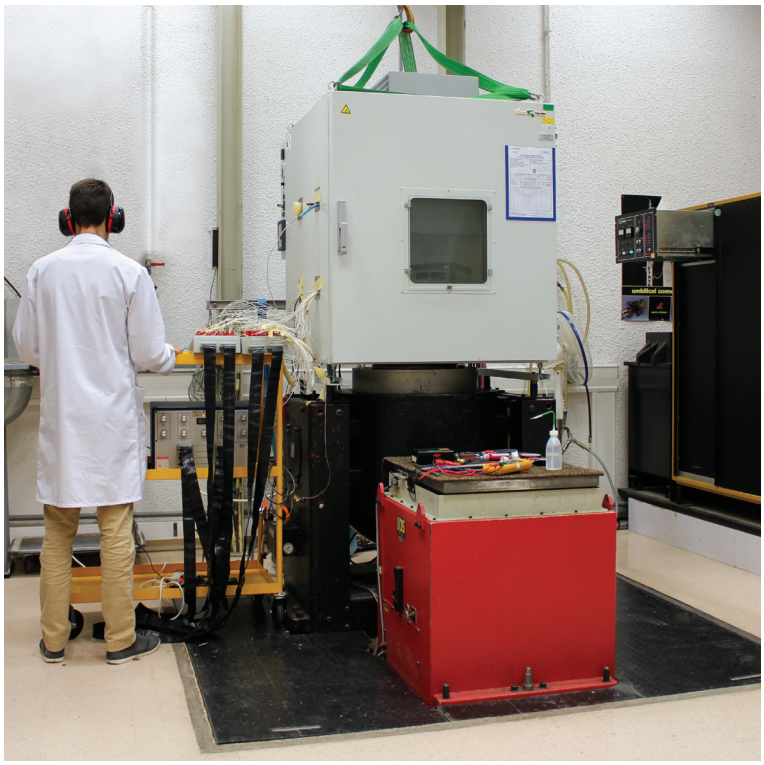
afnor CERTIFICATION

106552 - 02/2016

CTL is also Certified:

- By the British Standard Association (BSI) as a laboratory competent to conduct official qualifications and periodic inspections of products BS CECC 75201-002 (JVS Series).
- By the Bundesamt für Ausrüstung, Informationstechnik und Nutzung der Bundeswehr (BAAINBw) as a laboratory competent to conduct official qualifications and periodic inspections of products VG95328 and VG96912.
- In compliance with standard MIL-STD-790 by the Defense Logistics Agency (DLA) of the Department of Defense of the United States of America as a laboratory competent to conduct official qualifications and periodic inspections (retention of qualification) of QPL products (Qualified Product List) according to product standards MIL-DTL-38999, MIL-DTL-26482 and MIL-DTL-24308.
- By the NAVAIR (Naval Air Systems Command) of the United States of America as a laboratory competent to conduct official qualifications and periodic inspections (retention of qualification) of products SAE AS39029 (contacts) and SAE AS85049 (backshells).

Mechanical Environment



Electro dynamic exciter 40kN and 27kN:
- Sine/Random vibrations software
- Frequency range 5Hz up to 3000kHz
- Acceleration up to 60g/44g_{rms}

Chamber for high temperature vibrations (up to 300°C)

Long duration vibrations test bench

Mechanical shock machine (20g/35ms up to 300g/3ms)

Hydrostatic high pressure vessels (up to 1000 bars)

Strength machine software controlled from 50N to 30kN

Torque meters 20Nm and 100Nm

Bending test bench

Mechanical endurance

Force sensor up to 500N

Climatical Environment

21 climatic chambers available:
- Temperature range from –70°C up to +500°C
- A thermal shock chamber 3 areas (-70°C/+200°C)
- 5 hot/cold/humidity software controlled chambers
- 1 rapid temperature variation hot/cold software controlled chamber

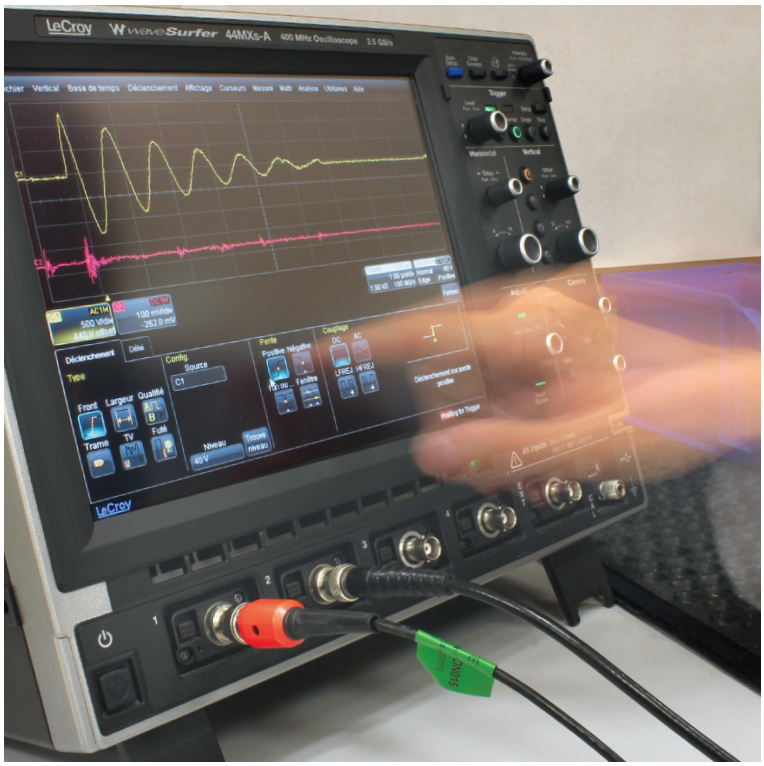
Two low pressure systems (high altitude up to hard vacuum)

A space environment test bench
(-170°C/+200°C – 10^{-7} torrs)

Salt spray chamber

Chemical fluid compatibility test room

Electrical Environment



Standard equipment range: multimeters, signal generators, dielectricmeters, megohmmeters up 5TΩ, milliohmmeters, oscilloscopes, etc.

High frequency test benches by network analyzers up to 20GHz (Shielding, susceptibility, VSWR, insertion loss, impedance, transient response, etc.

High power generators (power supply up to 3000Amps – pulse test bench 12kVA)

High voltage test bench (50kV AC/DC)

Automatic test bench for resistance, dielectric withstanding voltage & capacitance measurement (up to 200 ways)

Lightning bench 6kV/10kA and up to 20kA.

Amagnetism (excitation up to 0.6T, residual magnetism from 20nT)

Cable analyzer (TIA 568-C.2) for ethernet measurements

Calibration & Verifications

Calibration dedicated apparatus range:

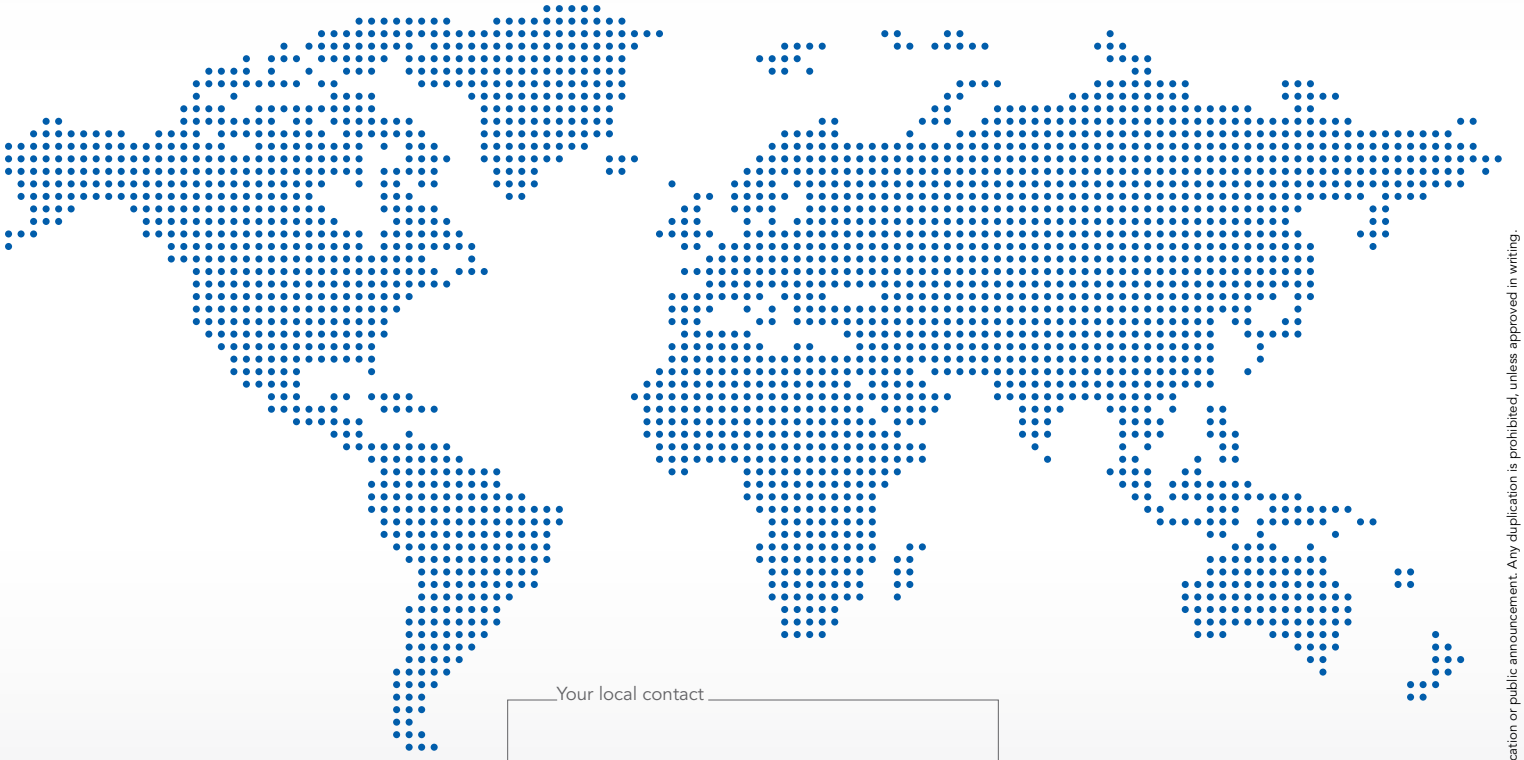
- Electric (voltage, current, frequency)
- Mechanic (force, torque, pressure)
- Climatic (temperature and humidity)

Appraisal optical equipment: binocular, microscope, digital camera

Micro-cutting and polishing facilities

X-Ray radiography system with digital scanner

Reliable People, Reliable Solutions



Your local contact

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Esterline
Connection Technologies

SOURIAU - SUNBANK

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